

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	150	"control packet" and fault and "operating system" and backup and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:18
L2	21	"control packet" and (fault with "operating system") and backup and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:43
L3	639	"control packet" with (fault or error or failure)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:04
L4	8166	"packet" with (fault or error or failure) with (signal or indicate or notify)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:46
L5	13	"packet" with (fault or error or failure) with (signal or indicate or notify) with "operating system"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:46
L6	10	("cable modem termination system" or "CMTS") with ("control packet")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 13:36
L7	1	"control packet" with (fault or error or failure) with "operating system"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:05
S1	22	(KHURANA-NEERAJ JEBARA-ALAIN JOFFE-NEIL JOFFE-NEIL-R JOFFE-NEIL-RAYMOND JOFFE-N-R KRISHNAMOORTHY-VENKATRAM). in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 08:33
S2	6	("6880086" "6883170" "6883110"). pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 08:35

EAST Search History

S3	1630	714/4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 11:53
S4	503	714/4.ccls. and backup	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 09:09
S5	641	714/11.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:18
S6	14	714/11.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:18
S7	2	714/11.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:19
S8	521	714/13.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:20
S9	6	714/13.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:20
S10	2	714/13.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:21
S11	855	714/30.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:22
S12	2	714/30.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:22

EAST Search History

S13	0	714/30.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:33
S14	794	714/43.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:34
S15	29	714/43.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:34
S16	2	714/43.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:36
S17	986	714/48.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:34
S18	16	714/48.ccls. and (network adj router)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:34
S19	0	714/48.ccls. and ("cable modem termination system" or "CMTS")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:41
S20	48	("cable modem termination system" or "CMTS") with (backup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 13:31
S21	35	"DMA ring"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 14:55
S22	364	(714/4 714/11 714/13 714/30 714/43 714/48).ccls. and @pd>="20060914"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/03 08:39

EAST Search History

S23	6	S22 and (("network router") ("cable modem termination system"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/03 08:39
S24	109	714/4.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 13:56
S25	36	714/11.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 13:57
S26	45	714/13.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 13:58
S27	63	714/30.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 13:59
S28	64	714/43.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 14:00
S29	65	714/48.ccls. and @pd>="20070303"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/08 14:00
S30	64	("cable modem termination system" or "CMTS") with (backup)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:16
S31	97	714/4.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:07
S32	28	714/11.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:07

EAST Search History

S33	49	714/13.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:26
S34	65	714/30.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:40
S35	55	714/43.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:57
S36	63	714/48.ccls. and @pd>="20070908"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/30 14:57
S37	359	"control packet" and fault and "operating system"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:19
S38	160	"control packet" and fault and "operating system" and backup	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 12:18

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	585	714/4.ccls.	US-PGPUB	OR	ON	2008/01/31 14:06
L11	174	("cable modem termination system" or "CMTS") and (backup)	US-PGPUB	OR	ON	2008/01/31 14:16
L12	177	"control packet" and fault and "operating system"	US-PGPUB	OR	ON	2008/01/31 14:19

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The "AND" operator is unnecessary -- we include all search terms by default. [\[details\]](#)

Web Results 1 - 10 of about 5,320 for "**cable modem termination system**" and **backup**. (0.32 seconds)

(WO/2003/085908) METHOD COMPUTER-READABLE MEDIUM AND SYSTEMS FOR ...

In a **backup cable modem termination system**, a method of restoring transmission of messages between one or more cable modems and the **backup cable modem ...**

www.wipo.int/pctdb/en/wo.jsp?WO=2003%2F085908&IA=WO2003%2F085908&DISPLAY=CLAIMS - 26k - [Cached](#) - [Similar pages](#)

(WO/2004/064371) INCREASING CAPACITY IN A CABLE MODEM TERMINATION ...

The **cable modem termination system** of claim 33, further comprising at least one switch module connected between the **backup cable modem termination system ...**

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[PDF] Cisco Cable Modem Termination System Feature Guide

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Admission Control for the Cisco **Cable Modem Termination System** (CMTS) is a The Cisco CMTS can act as a primary or **backup** ToD server to ensure that ...

www.cisco.com/univercd/cc/td/doc/product/cable/cab_rout/cmtsfg/cmts_fg.pdf - [Similar pages](#)

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interface between the **cable modem termination system** and the data network. Phase 2: Operations Support Systems Interfaces - These are network element ...

www.cablelabs.com/specifications/SP-CMCI-I10-050408.pdf - [Similar pages](#)

Radio frequency signal loopback in a cable modem termination ...

When each of the plurality of cable modem termination systems acts as a **backup cable modem termination system**, the downstream radio frequency signal output ...

www.freshpatents.com/Radio-frequency-signal-loopback-in-a-cable-modem-termination-system-dt20051110ptan20... - 28k - [Cached](#) - [Similar pages](#)

Upstream physical interface for modular cable modem termination ...

A modular **Cable Modem Termination System** (CMTS) includes a packet shelf ... CMTS architectures since each **backup** CMTS includes DOCSIS MAC processors, ...

www.freshpatents.com/Upstream-physical-interface-for-modular-cable-modem-termination-system-dt20070823pta... - 25k - [Cached](#) - [Similar pages](#)
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Telecommunications network employing a wireless backup path - IP ...

Telecommunications network employing a wireless **backup** path ... The **cable modem termination system** 20 ensures that all terminal units 36 connected to the ...

www.patentdebate.com/PATAPP/20040121726 - [Similar pages](#)

(WO/2004/064371) INCREASING CAPACITY IN A CABLE MODEM TERMINATION ...

The method includes detecting an overflow condition at a primary transceiver (120) of the **cable modem termination system**, determining whether a **backup ...**

www.wipo.org/pctdb/en/wo.jsp?wo=2004064371 - 13k - [Cached](#) - [Similar pages](#)

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New Cisco Universal Broadband Router **Cable Modem Termination System** Helps Dansk Kabel TV and ... **Backup** plans are almost ubiquitous -- and a good thing too. ...
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Fault tolerant computer system - US Patent 5455932

A **fault-tolerant** system used as a **network** server is described. Because the **backup operating system** is at the same state as the primary **operating system** ...

www.patentstorm.us/patents/5455932-description.html - 60k - [Cached](#) - [Similar pages](#)

(WO/1992/005487) FAULT TOLERANT COMPUTER SYSTEM

A **fault-tolerant** system used as a **network** server is described. engine 16 of the **backup operating system**. The OS engine 10 then has a state identical to ...

[www.wipo.int/pctdb/en/wo.jsp?IA=WO1992%2F05487&WO=1992%](http://www.wipo.int/pctdb/en/wo.jsp?IA=WO1992%2F05487&WO=1992%2F05487&DISPLAY=DESC)

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Network Performance Monitoring, Fault Detection, Recovery, and ...

fault management [35]. They assume that the **network** links between client and. servers as well as primary server and **backup** servers are always on. ...

doi.wiley.com/10.1002/0470028696.ch13 - [Similar pages](#)

Cranium: An interface for message passing on adaptive packet ...

waiting for the arrival of the **control packet**, the receiver simply counts the num- ... of packet data that would otherwise **back up** into the **network**. ...

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Patents in Class 710/268

A **fault-tolerant** RAID system is disclosed. The system includes redundant RAID reducing **operating system** interrupts by queuing incoming **network** traffic ...

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Foundry Networks Aggregation/Backbone (L2/3) Products - BigIron RX ...

Virtual Switch Redundancy Protocol (VSRP)—Supports sub-second **fault** detection and fail-over for mesh topologies in which redundant switches provide **back-up** ...

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redundant buses. the **operating system** processes com-. municate. via. **fault-tolerant** messages. At the time this structure was proposed and development ...

www.hpl.hp.com/techreports/tandem/TR-81.4.pdf - [Similar pages](#)

Emerald FullText Article : Quality of service middleware

The ORB is the middleware underlying the calls to the **operating system** and providing ... change tracking;; **network** design optimization. **Fault** management: ...

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A NonStop* Kernel Joel F. Bartlett Tandem Computers Inc. Cupertino ...
redundant buses, the **operating system**. processes communicate via **fault-tolerant** sent
as an unsequenced **control packet** or. piggy-backed on some **control** ...
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1 [Characterizing residential broadband networks](#)

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Marcel Dischinger, Andreas Haeberlen, Krishna P. Gummadi, Stefan Saroiu
 October 2007 **IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement**

Publisher: ACM

 Full text available: [pdf\(728.98 KB\)](#) Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

A large and rapidly growing proportion of users connect to the Internet via residential broadband networks such as Digital Subscriber Lines (DSL) and cable. Residential networks are often the bottleneck in the last mile of today's Internet. Their characteristics ...

Keywords: broadband access networks, cable, dsl, network measurement

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2 [DOCSIS performance evaluation: piggybacking versus concatenation](#)



Stefen Howard, Jim Martin
 March 2005 **ACM-SE 43: Proceedings of the 43rd annual Southeast regional conference - Volume 2**, Volume 2

Publisher: ACM

 Full text available: [pdf\(609.57 KB\)](#) Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

Demand for high-speed internet access is growing rapidly and new technologies have been developed to supply broadband access to homes and small businesses. One of these technologies, DOCSIS, delivers high-speed internet connections through existing cable ...

Keywords: DOCSIS, TCP performance, broadband access, cable networks, data over cable

3 [Assessing denial of service vulnerabilities in DOCSIS](#)



Scott Moser, Jim Martin
 March 2006 **ACM-SE 44: Proceedings of the 44th annual Southeast regional conference**

Publisher: ACM

Full text available:  pdf(109.04 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

In previous work a DOCSIS model was added to 'ns' to allow simulations to be run to analyze the performance of DOCSIS. These simulations showed that congestion caused by the asymmetric data paths and the MAC contention process caused several performance ...

Keywords: DOCSIS, TCP performance, broadband access, cable networks, data over cable

4 [Network and service management for wide-area electronic commerce networks](#)

Symeon Papavassiliou

March 2001 **International Journal of Network Management**, Volume 11
Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(416.91 KB) Additional Information: [full citation](#), [abstract](#),
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1 [Medium access control with coordinated adaptive sleeping for wireless sensor networks](#)

Wei Ye, John Heidemann, Deborah Estrin

June 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 3

Publisher: IEEE Press

Additional Information: [full citation](#), [abstract](#),Full text available: [pdf\(349.53 KB\)](#)
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This paper proposes S-MAC, a medium access control (MAC) protocol designed for wireless sensor networks. Wireless sensor networks use battery-operated computing and sensing devices. A network of these devices will collaborate for a common application ...

Keywords: energy efficiency, medium access control (MAC), sensor network, wireless network

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2 [Realizing the benefits of user-level channel diversity](#)

Evangelos Vergetis, Roch Guérin, Saswati Sarkar

October 2005 **ACM SIGCOMM Computer Communication Review**, Volume 35 Issue 5

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),Full text available: [pdf\(496.82 KB\)](#)
[references](#), [cited by](#), [index terms](#)

Channel or path diversity is known to improve performance in physical layer designs, channel access strategies, path switching mechanisms, etc. In this paper, we focus on "user-level" mechanisms that operate simply by distributing packet transmissions ...

Keywords: channel diversity, cross-layer designs, open-loop control, robustness

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3 [Defending against distributed denial-of-service attacks with max-min fair server-centric router throttles](#)

David K. Y. Yau, John C. S. Lui, Feng Liang, Yeung Yam
February 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13
Issue 1
Publisher: IEEE Press

Full text available:  pdf(820.35 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#), [review](#)

Our work targets a network architecture and accompanying algorithms for countering distributed denial-of-service (DDoS) attacks directed at an Internet server. The basic mechanism is for a server under stress to install a router throttle at selected ...


Keywords: congestion control, distributed denial of service, network security, router throttling

4 TCP offload through connection handoff



Hyong-youb Kim, Scott Rixner
April 2006 **EuroSys '06: Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2006**

Publisher: ACM

Full text available:  pdf(1.96 MB) Additional Information: [full citation](#), [abstract](#), [references](#),
[index terms](#)

This paper presents a connection handoff interface between the operating system and the network interface. Using this interface, the operating system can offload a subset of TCP connections in the system to the network interface, while the remaining ...


Keywords: TCP offload, connection handoff, operating system, programmable network interface

5 TCP offload through connection handoff



Hyong-youb Kim, Scott Rixner
October 2006 **EuroSys '06: ACM SIGOPS Operating Systems Review**,
Volume 40 Issue 4

Publisher: ACM

Full text available:  pdf(1.96 MB) Additional Information: [full citation](#), [abstract](#), [references](#),
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This paper presents a connection handoff interface between the operating system and the network interface. Using this interface, the operating system can offload a subset of TCP connections in the system to the network interface, while the remaining ...


Keywords: TCP offload, connection handoff, operating system, programmable network interface

6 Multicasting in mobile ad-hoc networks: achieving high packet delivery ratios

Thomas Kunz

October 2003 **CASCON '03: Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(127.94 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)


Multicasting is intended for group-oriented computing. There are more and more applications where one-to-many or many-to-many dissemination is an essential task. The multicast service is critical in applications characterized by the close collaboration ...

7 Centaurus: an infrastructure for service management in ubiquitous computing environments

Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, Yelena Yesha

November 2002 **Wireless Networks**, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(553.67 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

In the near future, we will see dramatic changes in computing and networking hardware. A large number of devices (e.g., phones, PDAs, even small household appliances) will become computationally enabled. Micro/nano sensors will be widely embedded in ...

Keywords: mobile computing, pervasive computing, service management, ubiquitous computing


8 Energy-efficient wireless ATM design



Paul J. M. Havinga, Gerard J. M. Smit, Martimus Bos

June 2000 **Mobile Networks and Applications**, Volume 5 Issue 2

Publisher: ACM


Full text available:  pdf(137.85 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

9 Adaptive group multicast with time-driven priority

Mario Baldi, Yoram Ofek, Bülent Yener

February 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 1

Publisher: IEEE Press

Full text available:  pdf(240.68 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: fairness, multicast, quality of service, real time, ring networks, scheduling, time-driven priority


10 Location-aided routing (LAR) in mobile ad hoc networks

Young-Bae Ko, Nitin H. Vaidya

July 2000 **Wireless Networks**, Volume 6 Issue 4

Publisher: Kluwer Academic Publishers

Additional Information:

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[full citation, references, cited
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